

Lesson 6-3 & 6-4

Dividing Fractions and Mixed Numbers

Objective:

SWBAT divide fractions and mixed numbers.

 Online!

Homework Video Tutor

Web Code: aqe-0603
and aqe-0604

New Vocabulary

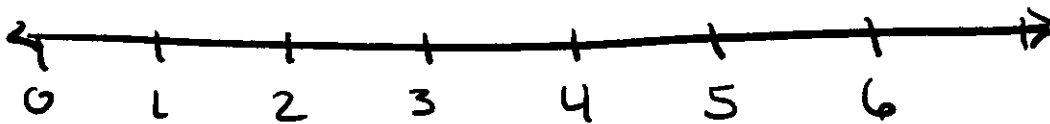
Reciprocal- two numbers are reciprocals if their product is 1.

Examples: $\frac{1}{2} \times \frac{2}{1} = \frac{2}{2} = 1$ $\frac{3}{5} \times \frac{5}{3} = \frac{15}{15} = 1$

Example 1- Dividing a Whole Number by a Fraction

You have 7 cups of birdseed. You use $\frac{2}{3}$ cup of seed each week. How long will your birdseed last?

$$7 \div \frac{2}{3}$$



Step 1- Write out the division problem

Step 2- Multiply by the _____ (leave it/change it/flip it)

Step 3- Simplify if necessary

Example 2- Dividing a Fraction by a Fraction

Find $\frac{5}{10} \div \frac{5}{6}$

Step 2-

Step 3-

Example 3- Dividing Mixed Numbers

A baker has $2\frac{1}{4}$ cups of blueberries to make three batches of muffins. How many cups of blueberries should the baker put into each batch?

Step 1- Write out the division problem

Step 2- Convert mixed numbers into improper fractions

Step 3- Multiply by the reciprocal (leave it/change it/flip it)

Step 4- Simplify if necessary.

Assignment _____ Date _____

Show Your Work!

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